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File No.: P388 0008  
RAJ/cc

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith for filing in regard to the patent application of:


Inventor(s): BARMAN, Roderick A.; KINGDON, Stewart; VLAAR, Timothy D.  
Title: METHODS AND APPARATUS FOR SYNCHRONIZING DEVICES ON  
DIFFERENT SERIAL DATA BUSES  
Serial No.: 10/766852  
Filed: 30 January 2004  
Examiner: Unknown Art Unit: 2181  
Date: 15 October 2004

Enclosed are:

- [X] Information Disclosure Statement;
- [X] Form PTO-SB/08;
- [X] The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 02-1037.

Respectfully submitted,  
OYEN WIGGS GREEN & MUTALA

By:

  
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GNM/RAJ/raj

Paper No.: \_\_\_\_\_

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Inventor(s): BARMAN, Roderick A.; KINGDON, Stewart; VLAAR, Timothy D.  
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Mail Stop Patent Applications  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**Disclosure Statement Pursuant to 37 C.F.R. §1.56**

Transmitted herewith is an Information Disclosure Statement disclosing information which has come to the attention of applicant(s) and/or their agents and is being submitted in compliance with the duty of disclosure set forth in 37 C.F.R. §1.56.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with 37 C.F.R. §1.98, transmitted herewith are:

1. A completed copy of Form PTO/SB/08 "Information Disclosure Statement by Applicant" listing the information being submitted for consideration; and

2. A copy of an information sheet which describes the "Dragonfly" camera which the Applicant sold in the United States starting in 2001. The Dragonfly camera is configured to synchronize itself with other Dragonfly cameras connected to the same bus. Each Dragonfly camera includes control software which monitors a time signal on the bus and causes the camera to attempt to start each new frame at a specific time relative to the time signal. The software implements a method involving:

- a. Calculating an error between the time at which the camera actually starts a frame and the time at which the camera should start the frame; and,
- b. Synchronizing image acquisition based on the calculated error.

The Dragonfly camera adjusts the rate at which the image is clocked out by modifying the number of columns clocked out of every row - increasing the number of columns decreases the speed and vice versa. Synchronization is checked once every 8 lines. This is done by determining the current position in the image and then back projecting to the theoretical start of frame. The current error is then calculated relative to what the actual start of frame should have been. This allows the Dragonfly camera to determine whether it is too fast or too slow, taking into account the current error for the current position in the image.

Respectfully submitted,

By:



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PTO/SB/08B (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/766,852
Filing Date	30 January 2004
First Named Inventor	Roderick A. Barman
Art Unit	2181
Examiner Name	
Attorney Docket Number	P388 0008

Sheet 1 of 1

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	POINT GREY RESEARCH, 'IEEE-1394 digital camera', 2001	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.